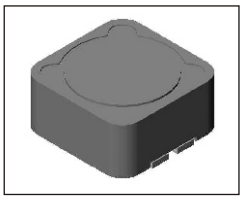
SMT Power Inductor

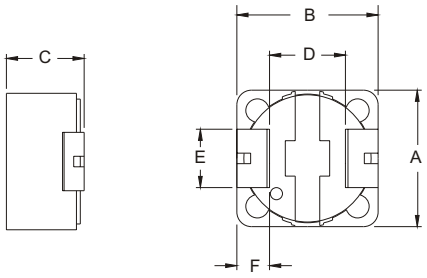
SIQ124R Type

Features

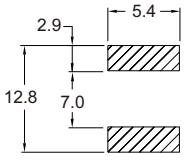
- RoHS compliant.
- Low profile(11A, 1.5uH) SMD type.
- Magnetically shielded, suitable for high density mounting.
- High energy storage and low DCR.
- Provided with embossed carrier tape packing.
- Idel for power source circuits, DC-DC converter, DC-AC inverters inductor applications.
- In addition to the standard versions shown here, customized inductors are available to meet your exact requirements.



Mechanical Dimension :



RECOMMENDED PAD PATTERNS



UNIT:mm/inch
A = 12.2 ± 0.3 / 0.480 ± 0.012
B = 12.2 ± 0.3 / 0.480 ± 0.012
C = 4.5 / 0.177 Max.
D = 7.6 ± 0.3 / 0.299 ± 0.012
E = 5.0 / 0.197
F = 2.2 / 0.087

Electrical Characteristics : 25°C : 100KHz, 0.1V

PART NO.	L[1] (uH)	DCR (mΩ) MAX	Isat [2] (Adc)	Ir [3] (Adc)
SIQ124R - 1R5	1.5	5.8	11.00	11.00
SIQ124R - 2R0	2.0	9.0	10.00	10.00
SIQ124RA - 2R0	2.0	9.2	12.40	7.40
SIQ124R - 2R7	2.7	10.8	9.00	9.00
SIQ124RA - 3R3	3.3	16.0	10.00	6.70
SIQ124R - 3R9	3.9	15.0	6.50	6.50
SIQ124R - 4R7	4.7	18.0	5.70	5.70
SIQ124RA - 5R6	5.6	25.0	8.20	6.10
SIQ124R - 6R8	6.8	23.0	4.90	4.90
SIQ124RA - 6R8	6.8	29.0	7.20	5.30
SIQ124R - 100	10.0	28.0	4.50	4.50
SIQ124RA - 100	10.0	42.0	6.00	4.70
SIQ124R - 120	12.0	36.0	4.00	4.00
SIQ124R - 150	15.0	50.0	3.20	3.20
SIQ124R - 180	18.0	57.0	3.10	3.10
SIQ124R - 220	22.0	66.0	2.90	2.90
SIQ124R - 270	27.0	80.0	2.80	2.80
SIQ124R - 330	33.0	97.0	2.70	2.70
SIQ124R - 390	39.0	132.0	2.10	2.10
SIQ124R - 470	47.0	150.0	1.90	1.90
SIQ124R - 560	56.0	190.0	1.80	1.80
SIQ124R - 680	68.0	220.0	1.50	1.50
SIQ124R - 820	82.0	260.0	1.30	1.30
SIQ124R - 101	100.0	308.0	1.20	1.20
SIQ124R - 121	120.0	380.0	1.10	1.10
SIQ124R - 151	150.0	530.0	0.95	0.95
SIQ124R - 181	180.0	620.0	0.85	0.85
SIQ124R - 221	220.0	700.0	0.80	0.80
SIQ124R - 271	270.0	876.0	0.60	0.60
SIQ124R - 331	330.0	990.0	0.50	0.50

1. Tolerance of inductance: ±20%.
2. Isat is the DC current which cause the inductance drop less than 25% of its nominal inductance without current.
3. Ir is the DC current which cause the surface temperature of the part increase less than 45°C.
4. Operating temperature: -20°C to 105°C (including self-temperature rise).

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